BRUHAT BANGALORE MAHANAGARA PALIKE

Project:Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division. 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division. 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.

Modified Estimate

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2								
	MCECHS LAYOUT								
	PHASE 1								
	17th cross PHASE 1 MCECHS		2	162.00	1.00		324.00		
	18th cross PHASE 1 MCECHS		2	153.00	1.00		306.00		
	9th cross PHASE 1 MCECHS		2	170.00	1.00		340.00		
	10th cross PHASE 1 MCECHS		2	170.00	1.00		340.00		
	7th B cross PHASE 1 MCECHS		2	167.00	1.00		334.00		
	6th cross Middle road PHASE 1 MCECHS		2	30.00	1.00		60.00		
	6th A cross PHASE 1 MCECHS		2	225.00	1.00		450.00		
	PHASE 2 MCECHS Layout								
	5th cross Road PHASE 2 MCECHS		2	155.00	1.00		310.00		
	6th cross down streem road PHASE 2 MCECHS		2	72.00	1.00		144.00		
	6th A cross PHASE 2 MCECHS		2	154.00	1.00		308.00		
	7th A cross PHASE 2 MCECHS		2	145.00	1.00		290.00		
	7th cross Middle road PHASE 2 MCECHS		2	88.00	1.00		176.00		
	8th cross PHASE 2 MCECHS		2	200.00	1.00		400.00		
	13th Cross PHASE 2 MCECHS		2	76.00	1.00		152.00		
	12th Cross PHASE 2 MCECHS		2	79.00	1.00		158.00		
	11th Cross PHASE 2 MCECHS		2	77.00	1.00		154.00		
	PHASE 1 MCECHS Layout								
	21st Cross Road PHASE 1 MCECHS		2	121.00	1.00		242.00		
	22nd Cross Road PHASE 1 MCECHS		2	73.00	0.90		131.40		
	23rd Cross Road PHASE 1 MCECHS		2	68.00	0.80		108.80		
							4728.20	7.09	**33522.94**
						BOQ Qty	**4730.00**		
2	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)								
	Telecom Layout								
	8th cross		1	161.00	5.80		933.80		
	9th cross		1	161.00	5.40		869.40		
	10th cross		1	163.00	5.60		912.80		
	12th cross		1	137.00	5.50		753.50		
	13th cross		1	144.00	5.55		799.20		
	14th cross		1	174.00	5.49		954.50		
	Connecting Road 13th cross to 16 th cross road		1	174.00	8.95		1557.30		
	MCCHS LAYOUT								
	Phase1								
	17th cross PHASE 1 MCECHS		1	162.00	6.45		1044.90		
	18th cross PHASE 1 MCECHS		1	153.00	6.50		994.50		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	9th cross PHASE 1 MCECHS		1	170.00	6.55		1113.50		
	10th cross PHASE 1 MCECHS		1	170.00	6.10		1037.00		
	7th B cross PHASE 1 MCECHS		1	167.00	6.70		1118.90		
	6th cross Middle road PHASE 1 MCECHS		1	30.00	5.60		168.00		
	6th A cross PHASE 1 MCECHS		1	225.00	6.30		1417.50		
	PHASE 2 MCECHS Layout		1	155.00	4.75		736.25		
	5th cross PHASE 2 MCECHS		1	72.00	6.60		475.20		
	6th cross down streem road PHASE 2 MCECH		1	154.00	5.00		770.00		
	6th cross PHASE 2 MCECHS		1	145.00	5.10		739.50		
	7th A cross PHASE 2 MCECHS		1	88.00	6.10		536.80		
	7th cross Middle road PHASE 2 MCECHS		1	200.00	5.90		1180.00		
	8th cross PHASE 2 MCECHS		1	76.00	5.00		380.00		
	13th CrossPHASE 2 MCECHS		1	79.00	5.00		395.00		
	12th Cross PHASE 2 MCECHS		1	77.00	4.80		369.60		
	11th Cross PHASE 2 MCECHS		1	365.00	5.80		2117.00		
	1st Main Road (opposite to 13th Cross PHASE 2 MCECHS Layout)		1	145.00	5.30		768.50		
	2nd Main Road (PHASE 2 MCECHS)								
	PHASE 1		1	72.00	4.80		345.60		
	SLV Temple Opposite Road Shivramkaranth Nagar PHASE 1 MCECHS		1	121.00	5.30		641.30		
	21st Cross Road PHASE 1 MCECHS		1	73.00	5.00		365.00		
	22nd Cross Road PHASE 1 MCECHS		1	68.00	5.10		346.80		
	23rd Cross Road PHASE 1 MCECHS								
	AmruthNagar (B Sector)		1	41.70	4.90		204.33		
	1st A Cross Road		1	56.00	5.35		299.60		
	2nd A Cross Road		1	184.00	5.00		920.00		
	1st Cross Road		1	184.00	5.90		1085.60		
	3rd Main Road		1	175.00	5.35		936.25		
	2nd Main Road		1	170.00	5.70		969.00		
	1st Main Road		1	184.00	5.98		1099.71		
	Amruthalli Police Station Parallel Road								
	High Tension Cable								
	Deduct Road Cut Portion								
	Vide Item no 6								
	Deduct Prime Coat								
	Telecom Layout								
	Road Portion								
	Bad Reaches		-12.00	3.00	1.00		-36.00		
			-6.00	4.00	2.00		-48.00		
			-8.00	2.00	2.00		-32.00		
			-9.00	1.00	1.40		-12.60		
			-1.00	2.30	3.20		-7.36		
							-741.60		
							28478.28		
						BOQ Qty	**25055.02**	3.54	**88694.77**
						Qty upto 125%	**3423.26**	3.54	**12118.35**
3	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Telecom Layout								

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	8th cross Road		2	161.00	0.50	0.45	72.45		
	9th cross Road		2	160.50	0.50	0.45	72.23		
	10th cross Road		2	162.90	0.50	0.45	73.31		
	12th cross Road		2	136.50	0.50	0.45	61.43		
	13th cross Road		2	144.00	0.50	0.45	64.80		
	14th cross Road		2	173.80	0.50	0.45	78.21		
	conecting Road 13th c/s to 16th cross		2	173.80	0.50	0.45	78.21		
	MCCHS LAYOUT								
	10th cross PHASE 1 MCCHS		2	170.00	0.50	0.45	76.50		
			2	88.00	0.50	0.45	39.77		
	New Rcc Drain								
	New Shanthisagar 1st Main Road								
	LHS		1	582.50	1.10	0.96	615.32		
	RHS		1	470.80	1.10	0.96	495.08		
	2nd Main Road								
	RHS		1	72.00	1.10	1.04	82.37		
	1st Cross Road								
	LHS		1	93.50	1.10	0.70	72.00		
	2nd Cross Road								
	LHS		1	77.50	1.10	0.83	70.76		
	3rd Cross Road								
	RHS		1	86.00	1.10	0.85	80.41		
	Culverts								
	RHS								
	9th cross Road		1.00	9.00	1.30	0.85	9.95		
	16th cross Road		1.00	4.60	1.30	0.90	5.38		
	17th cross Road		1.00	4.80	1.30	0.85	5.30		
	New Culvert								
	15th cross Road		1.00	5.50	1.30	0.85	6.08		
	Ch 490-499.7		1.00	9.70	1.30	0.85	10.72		
	Cross Culvert								
	at 1st Cross Road		1.00	5.50	1.30	0.85	6.08		
	at 2nd Cross Road		1.00	5.70	1.30	0.85	6.30		
							2082.63	208.41	**434040.35**
						BOQ Qty	**2084.33**		
4	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Telecom Layout								
	Road Portion								
	Bad Reaches								
			12.00	3.00	1.00	0.23	8.28		
			6.00	4.00	2.00	0.23	11.04		
			8.00	2.00	2.00	0.23	7.36		
			9.00	1.00	1.40	0.23	2.90		
			1.00	2.30	3.20	0.23	1.69		
	Road Portion Mcechs layout								
	Bad Reaches								
			3.00	2.00	2.00	0.20	2.40		
			5.00	3.50	3.00	0.20	10.50		
			7.00	4.50	1.20	0.20	7.56		
			6.00	2.50	1.80	0.20	5.40		
			1.00	2.80	2.38	0.20	1.33		
	Phase 1 MCCHS LAYOUT								
	17th cross								

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
			5.00	2.00	1.50	0.20	3.00		
			6.00	1.80	2.00	0.20	4.32		
			7.00	3.00	2.30	0.20	9.66		
			5.00	2.00	2.50	0.20	5.00		
	18th cross		4.00	2.10	2.00	0.20	3.36		
							4.20		
			7.00	1.00	3.00	0.20	4.80		
			8.00	1.50	2.00	0.20	6.80		
			9.00	1.80	2.10	0.20	9.20		
			10.00	2.00	2.30	0.20	2.40		
			2.00	2.40	2.50	0.20	3.90		
			5.00	2.60	1.50	0.20	6.40		
	9th cross MCCHS		8.00	2.00	2.00	0.20	2.40		
			6.00	2.00	1.00	0.20	4.41		
			7.00	2.10	1.50	0.20	4.14		
			5.00	2.30	1.80	0.20	4.00		
			4.00	2.50	2.00	0.20	2.16		
			3.00	1.50	2.40	0.20	8.32		
			8.00	2.00	2.60	0.20	8.28		
	10th cross PHASE 1 MCCHS		9.00	2.30	2.00	0.20	10.08		
			8.00	3.00	2.10	0.20	16.56		
			9.00	4.00	2.30	0.20	10.00		
			10.00	2.00	2.50	0.20	0.60		
			2.00	1.00	1.50	0.20	6.44		
			7.00	2.30	2.00	0.20	2.00		
			5.00	1.00	2.00	0.20	4.42		
	7th B cross MCCHS		4.00	2.30	2.40	0.20	10.00		
			5.00	2.50	4.00	0.20	2.40		
			4.00	1.50	2.00	0.20	1.20		
			3.00	2.00	1.00	0.20	4.60		
			5.00	2.00	2.30	0.20	2.76		
			6.00	2.30	1.00	0.20	8.28		
			10.00	1.80	2.30	0.20	7.20		
			12.00	3.00	1.00	0.20	33.00		
	6th cross Middle road		1.00	30.00	5.50	0.20	282.36		
	6th A cross PHASE 1 MCECHS		1.00	225.00	6.27				
	PHASE 2 MCECHS Layout					0.20	147.25		
	5th cross PHASE 2 MCECHS		1.00	155.00	4.75	0.20	95.76		
	6th cross down streem road PHASE 2 MCECHS		1.00	72.00	6.65				
	7th cross Middle road PHASE 2 MCECHS		1.00	88.00	6.13	0.20	107.89		
							908.01		
						BOQ Qty	309.13		
						Qty upto 125%	386.41	173.00	66848.93
						Above 125%	521.60	163.34	85198.14
5	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Telecom Layout								
	Road Portion								
	Bad Reaches								
			12.00	3.00	1.00	0.23	8.28		
			6.00	4.00	2.00	0.23	11.04		
			8.00	2.00	2.00	0.23	7.36		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
			9.00	1.00	1.40	0.23	2.90		
	Phase 1 MCCHS LAYOUT		1.00	2.30	3.20	0.23	1.69		
	17th cross								
			5.00	2.00	1.50	0.20	3.00		
			6.00	1.80	2.00	0.20	4.32		
			7.00	3.00	2.30	0.20	9.66		
			5.00	2.00	2.50	0.20	5.00		
	18th cross		4.00	2.10	2.00	0.20	3.36		
			7.00	1.00	3.00	0.20	4.20		
			8.00	1.50	2.00	0.20	4.80		
			9.00	1.80	2.10	0.20	6.80		
			10.00	2.00	2.30	0.20	9.20		
			2.00	2.40	2.50	0.20	2.40		
			5.00	2.60	1.50	0.20	3.90		
	9th cross MCCHS		8.00	2.00	2.00	0.20	6.40		
			6.00	2.00	1.00	0.20	2.40		
			7.00	2.10	1.50	0.20	4.41		
			5.00	2.30	1.80	0.20	4.14		
			4.00	2.50	2.00	0.20	4.00		
			3.00	1.50	2.40	0.20	2.16		
			8.00	2.00	2.60	0.20	8.32		
	10th cross PHASE 1 MCCHS		9.00	2.30	2.00	0.20	8.28		
			8.00	3.00	2.10	0.20	10.08		
			9.00	4.00	2.30	0.20	16.56		
			10.00	2.00	2.50	0.20	10.00		
			2.00	1.00	1.50	0.20	0.60		
			7.00	2.30	2.00	0.20	6.44		
			5.00	1.00	2.00	0.20	2.00		
	7th B cross MCCHS		4.00	2.30	2.40	0.20	4.42		
			5.00	2.50	4.00	0.20	10.00		
			4.00	1.50	2.00	0.20	2.40		
			3.00	2.00	1.00	0.20	1.20		
			5.00	2.00	2.30	0.20	4.60		
			6.00	2.30	1.00	0.20	2.76		
			10.00	1.80	2.30	0.20	8.28		
			12.00	3.00	1.00	0.20	7.20		
	6th cross Middle road		1.00	30.00	5.50	0.20	33.00		
	6th A cross PHASE 1 MCECHS		1.00	225.00	6.27	0.20	282.36		
	PHASE 2 MCECHS Layout								
	5th cross PHASE 2 MCECHS		1.00	155.00	4.75	0.20	147.25		
	6th cross down streem road PHASE 2 MCECHS		1.00	72.00	6.65	0.20	95.76		
	7th cross Middle road PHASE 2 MCECHS		1.00	88.00	6.13	0.20	107.89		
							880.82		
					BOQ Qty		485.58		
							606.98	1971.40	1196600.37
					Qty upto 125%		273.84	1861.26	509687.44
					Above 125%				
6	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)								
		Sqm							
	Telecom Layout								
	Road Portion								
	Bad Reaches								

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
			12.00	3.00	1.00		36.00		
			6.00	4.00	2.00		48.00		
			8.00	2.00	2.00		32.00		
			9.00	1.00	1.40		12.60		
			1.00	2.30	3.20		7.36		
	Phase 1 MCCHS LAYOUT								
	17th cross								
			5.00	2.00	1.50		15.00		
			6.00	1.80	2.00		21.60		
			7.00	3.00	2.30		48.30		
			5.00	2.00	2.50		25.00		
	18th cross		4.00	2.10	2.00		16.80		
			7.00	1.00	3.00		21.00		
			8.00	1.50	2.00		24.00		
			9.00	1.80	2.10		34.02		
			10.00	2.00	2.30		46.00		
			2.00	2.40	2.50		12.00		
			5.00	2.60	1.50		19.50		
	9th cross MCCHS		8.00	2.00	2.00		32.00		
			6.00	2.00	1.00		12.00		
			7.00	2.10	1.50		22.05		
			5.00	2.30	1.80		20.70		
			4.00	2.50	2.00		20.00		
			3.00	1.50	2.40		10.80		
			8.00	2.00	2.60		41.60		
			9.00	2.30	2.00		41.40		
	10th cross PHASE 1 MCCHS								
			8.00	3.00	2.10		50.40		
			9.00	4.00	2.30		82.80		
			10.00	2.00	2.50		50.00		
			2.00	1.00	1.50		3.00		
			7.00	2.30	2.00		32.20		
			5.00	1.00	2.00		10.00		
			4.00	2.30	2.40		22.08		
	7th B cross MCCHS								
			5.00	2.50	4.00		50.00		
			4.00	1.50	2.00		12.00		
			3.00	2.00	1.00		6.00		
			5.00	2.00	2.30		23.00		
			6.00	2.30	1.00		13.80		
			10.00	1.80	2.30		41.40		
			12.00	3.00	1.00		36.00		
	6th cross Middle road		1.00	30.00	5.50		165.00		
	6th A cross PHASE 1 MCECHS		1.00	225.00	6.27		1411.79		
	PHASE 2 MCECHS Layout								
	5th cross PHASE 2 MCECHS		1.00	155.00	4.75		736.25		
	6th cross down streem road PHASE 2 MCECHS		1.00	72.00	6.65		478.80		
	7th cross Middle road PHASE 2 MCECHS		1.00	88.00	6.13		539.44		
							4383.69		
					BOQ Qty		**2761.88**		
						Qty upto 125%	**3452.35**	30.72	**106056.19**
						Above 125%	**931.33**	29.02	**27027.34**

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
7	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	For BM	Sqm							
	Bad Reachs/Profile Correction								
	MCCHS LAYOUT								
	7th A cross								
				11.00	2.00	2.10	46.20		
				8.00	2.50	2.00	40.00		
				7.00	2.30	1.50	24.15		
	6th B cross			3.00	2.00	1.30	7.80		
				10.00	1.00	1.50	15.00		
				5.00	5.00	1.80	45.00		
				6.00	3.00	2.00	36.00		
	17th cross			8.00	1.00	1.80	14.40		
				10.00	2.00	1.80	36.00		
				7.00	2.50	2.00	35.00		
				5.00	2.20	2.30	25.30		
	18th cross			6.00	1.80	2.00	21.60		
				12.00	1.80	2.00	43.20		
				3.00	1.90	2.10	11.97		
				5.00	2.00	1.50	15.00		
	9th cross MCCHS			6.00	2.30	1.30	17.94		
				5.00	2.00	2.30	23.00		
				6.00	2.10	2.10	26.46		
				8.00	2.30	2.30	42.32		
	10th cross PHASE 1 MCCHS			7.00	2.50	2.00	35.00		
				8.00	1.50	1.80	21.60		
				5.00	1.60	2.00	16.00		
				6.00	1.80	2.40	25.92		
	6th cross Middle road			8.00	1.90	2.50	38.00		
				4.00	2.00	2.00	16.00		
	7th cross Middle road			11.00	2.50	2.30	63.25		
				8.00	2.00	2.00	32.00		
				4.00	1.80	2.10	15.12		
				5.00	1.90	2.30	21.85		
	8th cross			9.00	2.10	2.40	45.36		
				11.00	1.80	1.50	29.70		
				10.00	1.50	1.60	24.00		
				8.00	1.60	1.80	23.04		
	6th cross down streem road			7.00	1.30	1.90	17.29		
				12.00	2.00	1.80	43.20		
				5.00	2.30	1.90	21.85		
				7.00	2.10	2.30	33.81		
	6th cross			9.00	2.00	2.00	36.00		
				8.00	2.00	1.90	30.40		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
			4.00	2.10	2.00		16.80		
			6.00	1.90	2.30		26.22		
	13th Cross MCECHS Layout		7.00	2.80	1.80		35.28		
			11.00	1.60	1.70		29.92		
			4.00	1.30	1.80		9.36		
			5.00	1.20	1.90		11.40		
	12th Cross MCECHS Layout		8.00	1.50	2.00		24.00		
			7.00	1.80	1.80		22.68		
			5.00	2.00	1.90		19.00		
			6.00	2.10	2.00		25.20		
	11th Cross MCECHS Layout		11.00	2.30	2.10		53.13		
			8.00	1.90	2.80		42.56		
			9.00	2.80	2.50		63.00		
			5.00	2.30	2.30		26.45		
			6.00	2.50	3.00		45.00		
	21st Cross Road PHASE 1 MCECHS								
	22nd Cross Road PHASE 1 MCECHS		1.00	30.00	5.40		162.00		
	23rd Cross Road PHASE 1 MCECHS		1.00	43.00	5.02		215.86		
			1.00	23.00	5.63		129.49		
	For BC								
	Telecom Layout								
	8th cross								
	9th cross		1	161	5.8	--	933.80		
	10th cross		1	161	5.4	--	869.40		
	12th cross		1	163	5.6	--	912.80		
	13th cross		1	137	5.5	--	753.50		
	14th cross		1	144	5.55	--	799.20		
	Connecting Road 13th cross to 16 th cross road		1	174	5.48565	--	954.50		
	MCCHS LAYOUT		1	174	8.95	--	1557.30		
	Phase1								
	17th cross PHASE 1 MCECHS		1	162	6.45	--	1044.90		
	18th cross PHASE 1 MCECHS		1	153	6.5	--	994.50		
	9th cross PHASE 1 MCECHS		1	170	6.55	--	1113.50		
	10th cross PHASE 1 MCECHS		1	170	6.1	--	1037.00		
	7th B cross PHASE 1 MCECHS		1	167	6.7	--	1118.90		
	6th cross Middle road PHASE 1 MCECHS		1	30	5.6	--	168.00		
	6th A cross PHASE 1 MCECHS		1	225	6.3	--	1417.50		
	PHASE 2 MCECHS Layout								
	5th cross PHASE 2 MCECHS		1	155	4.75	--	736.25		
	6th cross down streem road PHASE 2 MCECHS		1	72	6.6	--	475.20		
	6th cross PHASE 2 MCECHS		1	154	5	--	770.00		
	7th A cross PHASE 2 MCECHS		1	145	5.1	--	739.50		
	7th cross Middle road PHASE 2 MCECHS		1	88	6.1	--	536.80		
	8th cross PHASE 2 MCECHS		1	200	5.9	--	1180.00		
	13th CrossPHASE 2 MCECHS		1	76	5	--	380.00		
	12th Cross PHASE 2 MCECHS		1	79	5	--	395.00		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	11th Cross PHASE 2 MCECHS								
	1st Main Road (opposite to 13th Cross PHASE 2		1	77	4.8	--	369.60		
	2nd Main Road (PHASE 2 MCECHS)		1	365	5.8	--	2117.00		
	PHASE 1								
	SLV Temple Opposite Road Shivramkaranth Nag		1	145	5.3	--	768.50		
	21st Cross Road PHASE 1 MCECHS		1	72	4.8	--	345.60		
	22nd Cross Road PHASE 1 MCECHS		1	121	5.3	--	641.30		
	23rd Cross Road PHASE 1 MCECHS		1	73	5	--	365.00		
	AmruthNagar (B Sector)		1	68	5.1	--	346.80		
	1st A Cross Road								
	2nd A Cross Road		1	41.7	4.9	--	204.33		
	1st Cross Road		1	56	5.35	--	299.60		
	3rd Main Road		1	184	5	--	920.00		
	2nd Main Road		1	184	5.9	--	1085.60		
	1st Main Road		1	175	5.35	--	936.25		
	Amruthalli Police Station Parallel Road		1	170	5.7	--	969.00		
	High Tension Cable		1	184	5.98	--	1099.71		
							31427.47	13.00	408557.11
					BOQ Qty		34788.20		
8	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
	Bad Reachs/Profile Correction	Cum							
	MCCHS LAYOUT								
	8th cross MCCHS								
			12.00	3.00	2.00	0.05	3.60		
			3.00	4.00	1.80	0.05	1.08		
	7th A cross		8.00	2.00	2.50	0.05	2.00		
			5.00	1.00	2.00	0.05	0.50		
			11.00	2.00	2.10	0.05	2.31		
			8.00	2.50	2.00	0.05	2.00		
			7.00	2.30	1.50	0.05	1.21		
	6th B cross		3.00	2.00	1.30	0.05	0.39		
			10.00	1.00	1.50	0.05	0.75		
			5.00	5.00	1.80	0.05	2.25		
			6.00	3.00	2.00	0.05	1.80		
	17th cross		8.00	1.00	1.80	0.05	0.72		
			10.00	2.00	1.80	0.05	1.80		
			7.00	2.50	2.00	0.05	1.75		
			5.00	2.20	2.30	0.05	1.27		
	18th cross		6.00	1.80	2.00	0.05	1.08		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
			12.00	1.80	2.00	0.05	2.16		
			3.00	1.90	2.10	0.05	0.60		
			5.00	2.00	1.50	0.05	0.75		
	9th cross MCCHS		6.00	2.30	1.30	0.05	0.90		
			5.00	2.00	2.30	0.05	1.15		
			6.00	2.10	2.10	0.05	1.32		
			8.00	2.30	2.30	0.05	2.12		
	10th cross PHASE 1 MCCHS		7.00	2.50	2.00	0.05	1.75		
			8.00	1.50	1.80	0.05	1.08		
			5.00	1.60	2.00	0.05	0.80		
			6.00	1.80	2.40	0.05	1.30		
	6th cross Middle road		8.00	1.90	2.50	0.05	1.90		
			4.00	2.00	2.00	0.05	0.80		
	7th cross Middle road		11.00	2.50	2.30	0.05	3.16		
			8.00	2.00	2.00	0.05	1.60		
			4.00	1.80	2.10	0.05	0.76		
			5.00	1.90	2.30	0.05	1.09		
	8th cross		9.00	2.10	2.40	0.05	2.27		
			11.00	1.80	1.50	0.05	1.49		
			10.00	1.50	1.60	0.05	1.20		
			8.00	1.60	1.80	0.05	1.15		
	6th cross down streem road		7.00	1.30	1.90	0.05	0.86		
			12.00	2.00	1.80	0.05	2.16		
			5.00	2.30	1.90	0.05	1.09		
			7.00	2.10	2.30	0.05	1.69		
	6th cross		9.00	2.00	2.00	0.05	1.80		
			8.00	2.00	1.90	0.05	1.52		
			4.00	2.10	2.00	0.05	0.84		
			6.00	1.90	2.30	0.05	1.31		
			7.00	2.80	1.80	0.05	1.76		
	13th Cross MCECHS Layout								
			11.00	1.60	1.70	0.05	1.50		
			4.00	1.30	1.80	0.05	0.47		
			5.00	1.20	1.90	0.05	0.57		
	12th Cross MCECHS Layout		8.00	1.50	2.00	0.05	1.20		
			7.00	1.80	1.80	0.05	1.13		
			5.00	2.00	1.90	0.05	0.95		
			6.00	2.05	2.00	0.05	1.23		
	11th Cross MCECHS Layout		11.00	2.30	2.10	0.05	2.66		
			8.00	1.90	2.80	0.05	2.13		
			9.00	2.80	2.50	0.05	3.15		
			5.00	2.30	2.30	0.05	1.32		
			6.00	2.50	3.00	0.05	2.25		
	21st Cross Road PHASE 1 MCECHS		1.00	30.00	5.40	0.05	8.10		
	22nd Cross Road PHASE 1 MCECHS		1.00	43.00	5.00	0.05	10.75		
	23rd Cross Road PHASE 1 MCECHS		1.00	23.00	5.63	0.05	6.47		
							110.76	7007.48	**776155.49**

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
9	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)				BOQ Qty		110.85		
	Telecom Layout								
	8th cross	Cum							
	9th cross		1	161.00	5.80	0.04	37.35		
	10th cross		1	161.00	5.40	0.04	34.78		
	12th cross		1	163.00	5.60	0.04	36.51		
	13th cross		1	137.00	5.50	0.04	30.14		
	14th cross		1	144.00	5.55	0.04	31.97		
	Connecting Road 13th cross to 16 th cross road		1	174.00	5.49	0.04	38.18		
	MCCHS LAYOUT		1	174.00	8.95	0.04	62.29		
	Phase1								
	17th cross PHASE 1 MCECHS								
	18th cross PHASE 1 MCECHS		1	162.00	6.45	0.04	41.80		
	9th cross PHASE 1 MCECHS		1	153.00	6.50	0.04	39.78		
	10th cross PHASE 1 MCECHS		1	170.00	6.55	0.04	44.54		
	7th B cross PHASE 1 MCECHS		1	170.00	6.10	0.04	41.48		
	6th cross Middle road PHASE 1		1	167.00	6.70	0.04	44.76		
	6th A cross PHASE 1 MCECHS		1	30.00	5.60	0.04	6.72		
			1	225.00	6.30	0.04	56.70		
	PHASE 2 MCECHS Layout								
	5th cross PHASE 2 MCECHS								
	6th cross down streem road PHASE 2 MCECHS		1	155.00	4.75	0.04	29.45		
			1	72.00	6.60	0.04	19.01		
	6th cross PHASE 2 MCECHS								
	7th A cross PHASE 2 MCECHS		1	154.00	5.00	0.04	30.80		
	7th cross Middle road PHASE 2		1	145.00	5.10	0.04	29.58		
	8th cross PHASE 2 MCECHS		1	88.00	6.10	0.04	21.47		
			1	200.00	5.90	0.04	47.20		
	13th CrossPHASE 2 MCECHS		0	0.00	0.00	0.04	0.00		
			1	76.00	5.00	0.04	15.20		
	12th Cross PHASE 2 MCECHS		1	79.00	5.00	0.04	15.80		
	11th Cross PHASE 2 MCECHS		1	77.00	4.80	0.04	14.78		
	1st Main Road (opposite to 13th Cross PHASE 2 MCECHS Layout)		1	365.00	5.80	0.04	84.68		
	2nd Main Road (PHASE 2 MCECHS)								
			1	145.00	5.30	0.04	30.74		
	PHASE 1								
	SLV Temple Opposite Road								
	21st Cross Road PHASE 1 MCECHS		1	72.00	4.80	0.04	13.82		
	22nd Cross Road PHASE 1 MCECHS		1	121.00	5.30	0.04	25.65		
	23rd Cross Road PHASE 1 MCECHS		1	73.00	5.00	0.04	14.60		
			1	68.00	5.10	0.04	13.87		
	AmruthNagar (B Sector)								
	1st A Cross Road								
	2nd A Cross Road		1	41.70	4.90	0.04	8.17		
	1st Cross Road		1	56.00	5.35	0.04	11.98		
			1	184.00	5.00	0.04	36.80		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	3rd Main Road		1	184.00	5.90	0.04	43.42		
	2nd Main Road		1	175.00	5.35	0.04	37.45		
	1st Main Road		1	170.00	5.70	0.04	38.76		
	Amruthalli Police Station Parallel Road		1	184.00	5.98	0.04	43.99		
					BOQ Qty		1174.23	7898.63	9274837.44
							1373.76		
10	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line	Sqm							
	AmruthNagar (B Sector)								
	1st Cross Road		2	184.00	0.10	--	36.80		
	3rd Main Road		2	184.00	0.10	--	36.80		
	2nd Main Road		2	175.00	0.10	--	35.00		
	1st Main Road		2	170.00	0.10	--	34.00		
	Amruthalli Police Station Parallel Road		2	184.00	0.10	--	36.80		
	High Tension Cable								
					BOQ Qty		179.40	605.13	108560.32
							1560.25		
11	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
	New Shanthinagar,1st Main Road	Cum							
	New Drain								
	LHS		1.00	582.50	1.10	0.15	96.11		
	RHS		1.00	470.80	1.10	0.15	77.68		
	2nd Main Road								
	RHS		1.00	72.00	1.10	0.15	11.88		
	1st Cross Road								
	LHS		1.00	93.50	1.10	0.15	15.43		
	2nd Cross Road								
	LHS		1.00	77.50	1.10	0.15	12.79		
	3rd Cross Road								
	RHS		1.00	86.00	1.10	0.15	14.19		
	Culvert								
	RHS								
	9th cross Road		1.00	9.00	1.30	0.15	1.76		
	16th cross Road		1.00	4.60	1.30	0.15	0.90		
	17th cross Road		1.00	4.80	1.30	0.15	0.94		
	New Culvert								
	15th cross Road								
	Ch 490-499.7		1.00	5.50	1.30	0.10	0.72		
	Cross Culvert		1.00	9.70	1.30	0.10	1.26		
	at 1st Cross Road								
	at 2nd Cross Road		1.00	5.50	1.30	0.10	0.72		
			1.00	5.70	1.30	0.10	0.74		
							233.73	5963.86	1393930.02
					BOQ Qty		200.34		

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
12	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
	New Shanthinagar,1st Main Road	Cum							
	New Drain								
	LHS		4.00	582.50		0.72	1677.60		
	RHS		4.00	470.80		0.70	1318.24		
	1st Cross Road								
	LHS		4.00	72.00		0.79	227.52		
	2nd Cross Road								
	LHS		4.00	93.50		0.46	171.35		
	3rd Cross Road								
	RHS		4.00	77.50		0.60	186.00		
	Culvert								
	RHS		4.00	86.00		0.60	206.40		
	9th cross Road								
	16th cross Road		4.00	9.00					
	17th cross Road		4.00	4.60		0.60	21.60		
	New Culvert		4.00	4.80		0.65	11.96		
	15th cross Road					0.60	11.52		
	Ch 490-499.7		4.00	5.50					
	Cross Culvert		4.00	9.70		0.60	13.20		
	at 1st Cross Road					0.60	23.28		
	at 2nd Cross Road		4.00	5.50					
			4.00	5.70		0.60	13.20		
						0.60	13.68		
					BOQ Qty		3894.18		
					Qty upto 125%		3484.80	346.29	1206751.39
							409.38	346.29	141763.54
13	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	For Drain, 50 kgs/cum		463.00	50.00		23.15			
	For culvert, 75 kgs/cum		34.90	75.00		2.62			
						25.77	Tn		
					BOQ Qty	24.33			
					Qty upto 125%	1.44		71631.41	1742792.21
								71631.41	102970.15
14	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
	New Shanthinagar,1st Main Road	Rmt							
	New Drain								
	LHS		1.00	574.50	0.90		517.05		
	RHS		1.00	470.80	0.90		423.72		
	2nd Main Road								
	RHS		1.00	72.00	0.90		64.80		
	missing Slab		1.00	30.00	0.90		27.00		

Scanned by TapScanner

Bill No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs.
	1st Cross Road								
	LHS		1.00	26.00	0.90		23.40		
	2nd Cross Road								
	LHS		1.00	93.50	0.90		84.15		
	3rd Cross Road								
	RHS		1.00	77.50	0.90		69.75		
				30.00	0.90		27.00		
						BOQ Qty	1236.60	2341.50	2895498.90
15	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work						1242.00		
		Sqm							
	Culvert								
	RHS		1.00	9.00	1.20		10.80		
	9th cross Road		1.00	4.60	1.20		5.52		
	16th cross Road		1.00	4.80	1.20		5.76		
	17th cross Road								
	New Culvert		1.00	5.50	1.20		6.60		
	15th cross Road		1.00	9.70	1.20		11.64		
	Ch 490-499.7								
	Cross Culvert		1.00	5.50	1.20		6.60		
	bt 1st Cross Road		1.00	5.70	1.20		6.84		
	bt 2nd Cross Road								
						BOQ Qty	53.76	5698.76	306365.34
16	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6							86.40		
		Cum							
	Raft								
	New Shanthinagar,1st Main Road		1.00	582.50	0.90	0.15	78.64		
	New Drain		1.00	470.80	0.90	0.15	63.56		
	LHS								
	RHS		1.00	72.00	0.90	0.15	9.72		
	2nd Main Road								
	RHS		1.00	93.50	0.90	0.15	12.62		
	1st Cross Road								
	LHS		1.00	77.50	0.90	0.15	10.46		
	2nd Cross Road								
	LHS		1.00	30.00	0.90	0.15	4.05		
	3rd Cross Road								
	RHS								
	Culvert								
	RHS		1.00	9.00	1.30	0.25	2.93		
	9th cross Road		1.00	4.60	1.30	0.25	1.50		
	16th cross Road		1.00	4.80	1.30	0.25	1.56		
	17th cross Road								
	New Culvert		1.00	5.50	1.30	0.25	1.79		
	15th cross Road		1.00	9.70	1.30	0.25	3.15		
	Ch 490-499.7								

Scanned by TapScanner

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Cross Culvert								
	at 1st Cross Road		1.00	5.50	1.30	0.25	1.79		
	at 2nd Cross Road		1.00	5.70	1.30	0.25	1.85		
	Side Wall								
	New Shanthinagar,1st Main Road								
	New Drain								
	LHS		2.00	582.50	0.15	0.72	125.82		
	RHS		2.00	470.80	0.15	0.70	98.87		
	2nd Main Road								
	RHS		2.00	72.00	0.15	0.79	17.06		
	1st Cross Road								
	LHS		2.00	93.50	0.15	0.46	12.85		
	2nd Cross Road								
	LHS		2.00	77.50	0.15	0.60	13.95		
	3rd Cross Road								
	RHS		2.00	30.00	0.15	0.60	5.40		
	Culvert								
	RHS								
	9th cross Road		2.00	9.00	0.25	0.60	2.70		
	16th cross Road		2.00	4.60	0.25	0.65	1.50		
	17th cross Road		2.00	4.80	0.25	0.60	1.44		
	New Culvert								
	15th cross Road		2.00	5.50	0.25	0.60	1.65		
	Ch 490-499.7		2.00	9.70	0.25	0.60	2.91		
	Cross Culvert								
	at 1st Cross Road		2.00	5.50	0.25	0.60	1.65		
	at 2nd Cross Road		2.00	5.70	0.25	0.60	1.71		
							478.25		
					BOQ Qty		**469.26**	7104.40	**3333810.74**
					Qty upto 125%		**8.99**	7104.40	**63858.66**
17	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - Close graded granular sub-base material as per 400-1 For Grading- I Material								
	6th A Cross from Temple to end		1.00	85.00	4.88	0.15	62.25		
							62.25	1856.76	**115574.95**
					BOQ Qty		**137.84**		
							Total Construction Cost		**24431684.65**

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.

2 The provisions made in the estimate are necessary and essential.

3 The workspot was inspected and work is found to be necessary.

4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer 30/11/2020

Assistant Executive Engineer 30/11/2020

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS CONSULTANTS

Scanned by TapScanner